

Title (en)
Switchable Fresnel lens

Title (de)
Steuerbare Fresnellinsenanordnung

Title (fr)
Lentille de Fresnel commandable

Publication
EP 1477839 A3 20041201 (DE)

Application
EP 04017369 A 19990309

Priority
• DE 19809975 A 19980309
• DE 29814622 U 19980817
• EP 99915553 A 19990309

Abstract (en)
[origin: EP1477839A2] A miniature optic switch with a minimum of moving parts uses a fluid to break the light path in a duct through the switch. The liquid is displaced by a micro-mechanical actuator, or by a piezo-electric actuator. The incident and exit light beams can be angled to each other, with a reflecting surface inside the light duct. Alternately the fluid can be moved into a space to block the light transmission between two optic elements.

IPC 1-7
G02B 26/02

IPC 8 full level
G02B 6/35 (2006.01); **G02B 26/02** (2006.01)

CPC (source: EP)
G02B 6/3538 (2013.01); **G02B 26/004** (2013.01); **G02B 6/3546** (2013.01); **G02B 6/3548** (2013.01); **G02B 6/355** (2013.01); **G02B 6/3574** (2013.01); **G02B 6/3576** (2013.01); **G02B 6/3578** (2013.01); **G02B 6/3596** (2013.01)

Citation (search report)
• [X] US 5004902 A 19910402 - MATSUI HIROSHI [JP], et al
• [X] US 4729641 A 19880308 - MATSUOKA KAZUHIKO [JP], et al
• [A] US 4251137 A 19810217 - KNOP KARL, et al
• [A] DE 19527566 A1 19970130 - SEL ALCATEL AG [DE]
• [X] PATENT ABSTRACTS OF JAPAN vol. 0082, no. 02 (P - 300) 14 September 1984 (1984-09-14)

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
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